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1991, abandoned, which is a continuation-in-part of
application Serial No. 07/482,005, filed February 16, 1990,
abandoned.--

IN THE CLAIMS

Please cancel Claims 1-46.

Please add Claims 47-57.

2/26/90
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-47. A reagent for detecting the presence of a
point mutation in which a first nucleic acid residue is
replaced by a second nucleic acid residue different from the
first nucleic acid residue at a defined site within a gene
of interest, comprising an oligonucleotide of sufficient
length to act as primer for an enzyme catalyzed chain
extension nucleic acid polymerization reacting, said
oligonucleotide primer comprising an attachment moiety
through which the detection primer can be immobilized and
having a sequence which is complementary to a region of the
gene of interest beginning with the nucleotide residue
immediately adjacent to and toward the 3' end of the gene
from the defined site and extending away from the defined
site toward the 3' end of the gene, the 5' end of the
oligonucleotide primer being complementary to the nucleotide
residue immediately adjacent to and to the 3' side of the
nucleotide residue at the defined site, whereby enzyme
catalyzed chain extension nucleic acid polymerization will
commence by adding a nucleic acid residue complementary to
either the first nucleic residue or the second nucleic acid
residue, wherein when the reagent hybridizes with the gene,

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